

## STATUS OF LIBRARY AUTOMATION IN BMSCE LIBRARY BANGALORE - A STUDY

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### ABSTRACT

*This article tends to look onto library automation and the changing environment of library administration of BMS College of Engineering. Automation has resulted in a diminution in manpower. The library's operation and functioning has evolved from slow to versatile as a result of innovation. This article will describe the concept of library automation, its needs, and the many components that assist to automate a library. Students are not obliged to search from shelf to shelf for a publication. They just acquire their books while seated at a computer.*

**KEYWORDS:** *Library software, Innovation, Resource Sharing, E-books, E-Journals, Digital Library, Automation, Cataloguing, LIBSYS Software, linguistic analysis.*

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### 1. INTRODUCTION

Libraries are designed to introduce a variety of innovations in order to grant information more swiftly. With the advent of new technologies in all of the library's housekeeping tasks, information communication technology [ICT] facilitates data collection, storage, organisation, processing, analysis, presentation, communication, and dissemination. The area of library and information management has been greatly transformed by technology, particularly computer and communications technologies. The notion of Library Automation was born out of this progress in the library profession.

### 2. LIBRARY AUTOMATION

In 1936, when the term "automation" was coined, an automated system of work is referred to automated processes without human intervention. Traditionally, the terms Library Automation and Library Mechanization have been used indiscriminately. Today, though, the phrase library automation is prominently used without debate to refer to the use of technology to undertake some of the conventional library operations. Acquisitions, indexing, distribution, and sequential control are all traditional library tasks.

However, it was thought to be more straightforward to simply correlate library automation with digitalization. Information querying, automatic categorization and extrapolating, automatic linguistic analysis, and other related topics are traditionally not included in the scope of library automation.

Library automation necessitates collaboration between software developers and librarians. As a result, library automation refers to the use of technology in typical library services and infrastructure. Several libraries, particularly research and development and elite college libraries, have been automated to manage the massive amounts of data and information they have in order to provide comprehensive, precise, and insightful

information technology solutions to their students, employees, and researchers.

### **3. DEFINITION OF LIBRARY AUTOMATION**

"The use of automated and semi-automated data processing equipment to handle such standard library features as procurement, indexing, and circulation," according to the Encyclopaedia of Library and Information Sciences.

### **4. FACTORS INFLUENCING LIBRARY AUTOMATION**

- Information explosion
- Shrinking space
- Organising flood of information
- Cost hike in printed material
- Cost hike in electronic reading material
- Resource sharing
- Library technology
- Library services

### **5. AREAS OF LIBRARY AUTOMATION AND NETWORKING**

- Developing institutional repository
- Cataloguing and Circulation
- Library administration and management
- OPAC
- CD-ROM database searches
- Internet access to electronic resources
- Establishing a digital library
- JE-books and E-journal

### **6. DEVELOPMENT OF LIBRARY AUTOMATION SOFTWARE**

The BMS College of Engineering library implemented LIBSYS Software. The house-keeping activities of the library have been computerised by implementing LIBSYS Software. The BMS College of Engineering library resources have been completely barcoded and automated using LIBSYS 7.3 integrated library package which helps in transactions. The digital resources have been planned and deployed using the data centre and hosted in central server. Access to all the online library collection made available throughout the campus using intranet for the use of faculty and students.

LIBSYS Library functionality was intended to help enormous libraries manage their functions. The LIBSYS professional team guarantees that libraries are incredibly convenient, comprehensive, and technologically advanced.

LIBSYS Software has been creating software applications in the domains of library automation for more than two decades, giving richer experiences to library employees and students.

## **7. NEED FOR THE STUDY**

Solely computers are able to provide adequate substantial boost. The goal of library automation is to meet user requirements in a present dynamic environment while also improving library user satisfaction. Information explosion has resulted from the current expansion and improvement in all domains of knowledge. Information technology expanded the scope of user requirements. It assures simplicity of use, precision, and efficiency in hired efforts, as well as swift productivity. Multiple micro, moderate, and massive libraries in India have shown a strong desire to develop and use fully accessible library software. Many libraries have been able to update their operations and services because to advances in library software during the previous decades. Many libraries have been able to update their operations and services because to advances in library software during the previous two decades. As a consequence, the LIBSYS software is extensively utilized among technical education institution libraries as integrated library administration software. As a result, the purpose of this study is to evaluate the state of library automation at the BMS Engineering College Library.

## **8. STATEMENT OF THE PROBLEM**

The statement of the problem is “**The Status of Library Automation in BMSCE Library. Bangalore – A study.**”

## **9. OBJECTIVES OF THE STUDY**

- To understand approximately BMSCE Library's Library Automation capabilities.
- To discover more about the BMSCE Library's technical processing.
- To comprehend the several methods of library automation.
- To know the Library Management Application

## **10. SCOPE OF THE STUDY**

The research solely looks upon LIBSYS SOFTWARE automation at the BMSCE Library in Bangalore.

## **11. LIBRARY AUTOMATION IN BMSCE LIBRARY**

Library automation work in BMSCE library started in the year 2003 and completed in 2007. The library is fully automated. The LIBSYS open-source library software converted traditional library into E-library. The automation process in progress for the entire main library of the institute.

## **12. TECHNICAL PROCESSING AND AREAS OF AUTOMATION**

The LIBSYS Software module has several features which are important for the user to understand in order to make effective use of the software system processing in various functionalities like books, journal, CD-ROMs, web pages and video materials. The library resources have been completely barcoded and automated using LIBSYS 7.3 integrated library package.

### **A] Circulation Module**

Students, faculty, and staff receive bar - coded library cards from the library. The library application programs module's

fundamental functions are item check-out, issuing, or borrowing, and item check-in, return, and renewal. The e-circulation library's module allows undergraduate and graduate students, faculty members, and research scholars to obtain information on resources.

### **B] Acquisition Module**

Following the order of all prescribed and needed volumes, the following stage is to add the new collections to the library's main inventory, along with comprehensive details. This acquisition module contains all of the choices and sub-options for completing library acquisition activities. The acquisition module includes all of the elements that are normally found in engineering college libraries.

### **C] OPAC**

Over 60000 bibliographic records are available in the online public access collection, with more being updated on a regular basis.

### **D] Digital Library**

The e-lib services in digital section includes 10000+ e-book 5800 e-journals, Free-resources, NPTEL lectures with IP address link and Tech focuz 5.0 for question papers and faculty publication services available and can access them by the students and staff via library webpage in the BMSCE main library

## **13. LIBRARY MANAGEMENT APPLICATION**

Each copy of a book will be assigned an ISBN and a barcode slip, which is then used to monitor reservations for book sales. Alerts will be sent to library members using the Notification section. The essential component of the automation is the core library. The automated library management system is applicable to the entire library. The location identifier identifies the book's location. Fines are collected from members by the Fine Section. LIBSYS software may be used for library management in the same way.

## **CONCLUSIONS**

Information technology contributes in the advancements of library services. In India's engineering institutions, library automation is the most essential proposition. In today's libraries, information technology is used to provide the relevant information to the right person at the right time and in the right location.

The BMSCE Library used LYBSYS SOFTWARE to automate the library and provide information and excellent service to employees and students. For library automation, all professional universities should have a well-integrated and intelligent approach.

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